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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/088,011	08/12/2002	Aloys Wobben	970054.413USPC	4928

500 7590 03/31/2004

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EXAMINER

CUEVAS, PEDRO J

ART UNIT	PAPER NUMBER
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2834

DATE MAILED: 03/31/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/088,011

Applicant(s)

WOBBEN, ALOYS

Examiner

Pedro J. Cuevas

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 January 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 August 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☒ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Priority

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Germany on September 13, 1999. It is noted, however, that applicant has not filed a certified copy of the 199 43 847.1 application as required by 35 U.S.C. 119(b).

Specification

2. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-17 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 4,400,659 to Barron et al.

Barron et al. clearly teaches the construction of a high-speed apparatus and method of control of reactive power of for voltage stabilization in electric power systems comprising an electrical network (41_{a,b,c}), in which electrical power is produced by an electrical generator (10) preferably driven by the rotor (13) of a wind power installation (20) and suitably modulated by means of a compensation device (Figure 1) between the generator and the network for the compensation of reactive power by adaptation of the phase and/or amplitude of the reactive

power component of the delivered electrical power and operates as an inverter, characterised in that the compensation device is so regulated that:

the electrical power delivered to the consumer has a reactive power component which is adapted in respect of its phase and/or amplitude and in respect of its frequency to the consumer to compensate for the reactive power in the consumer (from column 3, line 64 to column 4, line 6);

the electrical generator produces capacitive reactive power in order to compensate for the inductive reactive power in the consumer (column 4, lines 7-17); and

the delivered electrical power is of a frequency which corresponds to the frequency of the reactive power caused by the consumer or represents a multiple of said frequency (column 3, lines 35-46).

5. With regards to claim 5-8 and 12-17, Barron et al. (column 3, line 35 to column 4, line 17) disclose the construction of a high-speed apparatus and method of control of reactive power of for voltage stabilization in electric power systems including a compensation device which measures the voltage and/or current configurations in the electrical network, and in dependence on the measurement results regulates the reactive power component in the electrical power produced by the electrical generator, wherein:

the voltage produced by the electrical generator is regulated substantially to a predetermined reference value with suitable adaptation of the reactive power component in the electrical power delivered to the consumer;

adaptation of the reactive power component is effected by suitable control of the power factor ($\cos \phi$) or the phase of the current produced by the electrical generator;

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the electrical generator is connected to an electrical network by way of a line and/or a transformer, further including the step of: regulating the voltage produced by the electrical generator so that the value thereof is of the order of magnitude of the value of the network voltage or corresponds to the value of the network voltage;

the regulating device controls the inverter in dependence on the measurement results of the measuring device; and

the electrical generator is connected to an electrical network by way of a line and/or a transformer characterised in that the regulating device regulates the voltage produced by the electrical generator in such a way that the value thereof is of the order of magnitude of the value of the network voltage or corresponds to the value of the network voltage.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro J. Cuevas whose telephone number is (571) 272-2021. The examiner can normally be reached on M-F from 8:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Pedro J. Cuevas
March 29, 2004

A handwritten signature in black ink, appearing to read 'N. Ponomarenko', followed by a horizontal line.

Nicholas Ponomarenko
Primary Examiner
Technology Center 2800